

Modern Castings'

1962 Editorial Index

New Technology — Marketing Opportunities — Management for Profit — Technology for Profit — Operations for Profit. The combined efforts of over 165 individual authors contributed to the advancement of metalcasting in 1962. January-December, Volumes 41-42.

AEROSPACE CASTINGS

- Investment Castings for Jewelry and Jets, Feb., p 55
- Quick Reaction Capability: Jack H. Schaum, Nov., p 35

ALLOYING EFFECTS

- Add Copper to Gray Iron . . . For Dynamic Precision, Dec., p 42
- Alloy Cast Iron in Great Britain: J. G. Pearce, Sept., p 106
- Antimony Treated Cast Iron: J. Pelleg, Aug., p 76
- Copper As An Alloy In Iron Castings: W. E. Day, Nov., p 87
- Stress Corrosion Susceptibility Of Modified High Strength Yellow Brass Casting Alloys: D. K. Fox, Dec., p 51

ALUMINUM

- Al-7Si-0.3 Mg Alloy Simple and Complex Mold Casting Characteristics: G. Bracale, April, p 104
- Aluminum Castings for Electronic Communications, Oct., p 59
- Aluminum Die Casting and Factors Affecting Pressure Tightness: Donald L. La Velle, Aug., p 51
- Controlling Operational Variables in Die Casting: H. K. Barton, May, p 152
- New Burner Design Speeds Aluminum Melting: John H. Keating, Jan., p 44
- Permanent Molding Gains in Mass Markets, July, p 29
- Relationship between Machine Clamp and Casting Area in Aluminum Die Casting: David J. Sloane, June, p 114
- Run-out or Run-in: T. E. Barlow, Sept., p 54

AMERICAN FOUNDRYMEN'S SOCIETY

- AFS Committees Tackle Industry-Wide Problems with Cooperative Research, June, p 126
- Dalton, Robert F., Metalcasting News, Nov., p 113
- Foundry Instructors Seminar Updates Processes for Vocational Teachers, Aug., p 83
- Hockman, Clifford Named as AFS Director, April, p 134
- Honor Ten Foundrymen for Contributions, Feb., p 134
- Metalcasting News, Oct., p 131

- Nominating Group Picks Officers and Directors, Feb., p 132
- Outstanding Work by Industry's Apprentices Brings Recognition at AFS Annual Meeting, June, p 148
- Seelbach, Charles F. Jr., Named as AFS Director, April, p 134
- Society Wins Honors for Apprentice Work, Nov., p 118
- Technical Council Outlines Programs for Industry-Wide Basic Research, July, p 69

AFS CASTINGS CONGRESS

- Congress, Exposition Make Impact on World Metalcasters, June, p 130
- Detroit Opens Doors to World Foundrymen, May, p 97
- Exhibits-Sessions Win International Approval, June, p 137
- Explore New Areas in Iron—Morrogh: Hoyt Lecture, May, p 93
- Five Points for Selling Castings: Anthony E. Cascino, June, p 144
- Gold Medal Awards, May, p 95
- Hoyt Lecture: Explore New Areas in Iron—Morrogh, May, p 93
- International Elects Hallett, March, p 33
- Official Guide to Exhibitors, 1962 AFS Foundry Exposition, May, p 85
- 67th Technical Castings Congress, May 6-10, 1963, Sept., p 8
- \$2,500,000 "Package" of Validated New Technology, May, p 52
- What They Said in Detroit! June, p 39

AFS REGIONAL FOUNDRY CONFERENCES

- Industry Now in Transition, Wisconsin Meeting Stresses Ways to Compete, March, p 124
- Metalcasters Hear How Technology Helps Meet Stiff Demands: Texas Regional, May, p 188
- Northwest Regional Stresses Casting Reliability, Dec., p 117
- Stress New Technology and Markets at Southeast Regional Meeting, April, p 135

AFS TRAINING & RESEARCH INSTITUTE

- Rassenfoss, J. A., named as new T&RI Trustee, April, p 134

AUTOMOTIVE

- Die Casting Automotive Trim: R. J. Carroll, Sept., p 101
- Requirements for Successful Production of Automotive Gray Iron Castings: R. W. Schowalter, Sept., p 113
- Shell Molding Applied to a Hundred Automobile Parts: Tokinosuke Murao, Sept., p 92
- What Does the Automotive Turbine Mean to Metalcasters?: Robert Minor, April, p 47

BRASS & BRONZE

- Brass Die Casting: S. A. Tall and J. R. Beetham, Jan., p 91
- Casting a Thistle, Dec., p 40
- Cu-Al-Mn and Cu-Mn-Al Casting Alloys with Ni and Fe Additions: Krzysztof Rutkowski, Feb., p 99
- Explosive Embedment Anchor for Vessel Mooring Systems: William H. Baer, March, p 115
- Influence of Silicon on Gun Metal Alloys: L. A. DePue and W. A. Pennington, Oct., p 122
- MC Cover Reflects Spirit of Detroit, May, p 50
- New High Strength Copper Manganese Aluminum Alloys: J. M. Langham and A. W. O. Webb, Nov., p 62
- Statistical Study of Foundry Practice: Roger W. Hood, Aug., p 69
- Stress Corrosion Susceptibility Of Modified High Strength Yellow Brass Casting Alloys: D. K. Fox, Dec., p 51
- Waterless Sand Improves Finish: George Mott, April, p 54

CASTING

- MC Cover Reflects Spirit of Detroit, May, p 50
- Thorium and Thorium-Uranium Alloy Vacuum Induction Melting and Casting: N. H. Katz, E. G. Kendall and M. H. Binstock, Nov., p 80

CASTINGS

- Carrier Quality—Mark of Distinction for Metalcastings: Jack H. Schaum, Dec., p 37
- From Atoms to Kilowatts, Aug., p 43
- Massive Castings Help Distill Oceans' Water, Sept., p 40
- Shell Molding Applied to a Hundred Automobile Parts: Tokinosuke Murao, Sept., p 92
- What Does the Automotive Turbine Mean to Metalcasters?: Robert Minor, April, p 47

CASTING DEFECTS

- Aluminum Die Casting and Factors Affecting Pressure Tightness: Donald L. LaVelle, Aug., p 51
- Better Gating Eliminates Shrinkage: AFS Committee 8-S, May, p 49
- Blow Holes from Using Shallow Cope: AFS Committee 8-S, April, p 57

Clogged Core Vents Blow Castings, July, p 33
 Design Vs. Ingenuity: T. E. Barlow, Oct., p 64
 Excess Moisture Causes Rattail, June, p 54
 How To Control Expansion Defects: R. W. Heine, E. H. King, J. S. Schumacher, Dec., p 50
 How to Prevent Inverse Chill in Gray Iron: AFS Committee 8-S, March, p 55
 Poor Gating Can Cause Expansion Scabs, Aug., p 48
 Proper Gating Is Important: T. E. Barlow, Nov., p 43
 Proper Pattern And Casting Design To Control Defects: J. W. Costello, Dec., p 87
 Run-out or Run-in: T. E. Barlow, Sept., p 54

CENTRIFUGAL CASTING

Casting a Thistle, Dec., p 40
 Large Ductile Iron Castings Production: Kanshichi Tanaka, May, p 111
 New Technology Expands Centrifugal Casting Horizon, April, p 50

CHEMICAL ANALYSIS

Carbon Equivalent in 60 Seconds, March, p 37
 Cast Steel Analysis for Carbon and Alloys: K. R. Klumb, Feb., p 88
 Nitrogen In Cast Steel: Vsevolod Kuhn and Pierre Detrez, July, p 57

CLEANING & FINISHING

Cleaning Room Grinding: T. E. Martin, Dec., p 109
 Evaluating Grinding Costs: Robert D. Lane, Oct., p 62
 Modernization Cuts Cleaning Costs, March, p 52
 Surface Finish of Castings: E. Swing, G. J. Vingas, R. R. Schaaf, Oct., p 74

COMPANIES

Add Copper to Gray Iron . . . For Dynamic Precision, Dec., p 42
 Acco Malleable Castings: Eutectic Carbide—Eight-way Aid for Cupolas, Sept., p 37
 Albion Malleable Iron Company: Modernization Cuts Cleaning Costs, March, p 52
 Allis-Chalmers: How Allis-Chalmers Buys Castings, Aug., p 33
 American Brake Shoe Co.: How To Design Defective Castings, Feb., p 56
 Burlington Brass Works: Waterless Sand Improves Finish: George Mott, April, p 54
 Canadian General Electric Co. Ltd.: Cost Reduction—Passport to Survival, July, p 26
 Carrier Quality—Mark of Distinction for Metalcastings: Jack H. Schaum, Dec., p 37
 Castings Service Corp.: Slurry System Proves Cost Cutter, Aug., p 44
 Casting a Thistle, Dec., p 40

Chicago Foundry Co.: New Furnace Designed for Custom Melting, July, p 34

Crouse-Hinds Co.: Waste Disposal System Saves Money and Manpower, Feb., p 59

John Deere Tractor Works: Eutectic Carbide—Eight-way Aid for Cupolas, Sept., p 37

Forest City Foundries: Forest City Uses New Concept in Pyrometry: Jack H. Schaum, June, p 44

Fremont Castings Co.: Custom Job Shop Profits from New Furan Binder: Jack H. Schaum, Jan., p 38

General Metals Corp.: How General Metals Fought Back, June, p 48

General Railway Signal Company: They Said It Couldn't Be Done: Lester B. Knight, Nov., p 38

Grede Foundries: Carbon Equivalent in 60 Seconds, March, p 37

Hamilton Foundry, Inc.: Meet Today's Competition with Solid Salesmanship, March, p 40

Howard Foundry Company: Quick Reaction Capability: Jack H. Schaum, Nov., p 35

International Harvester, Louisville Foundry: High Speed Molding Takes High Speed Handling, Jan., p 41

Joseff-Hollywood: Investment Casting for Jewelry and Jets, Feb., p 55

Kolcast Industries Unveils Vacuum Casting Installation, Dec., p 116

Malleable Iron Fittings Co.: It Takes Sales Engineers to Sell Engineered Castings, Sept., p 42

Moline Malleable Iron Co.: Automatic Furnace Line Doubles Pearlitic Production, Sept., p 52

Monarch Aluminum Mfg. Co.: New Burner Design Speeds Aluminum Melting: John H. Keating, Jan., p 44

Pyle National: Pyle National Needs Castings in a Hurry, Oct., p 51

Scullin Steel Co.: Quality Castings Demand Quality Refractories: F. H. Hohn, March, p 48

Westover Corp.: Better Communications Mean Better Production Control, Feb., p 62

COPPER-BASE ALLOYS

Cu-Al-Mn and Cu-Mn-Al Casting Alloys with Ni and Fe Additions: Krzysztof Rutkowski, Feb., p 99

Importance of Charge Makeup, Melting Conditions and Fluxing in Copper Alloys: Pierre-Julien Le Thomas and Dominique Arnaud, June, p 105

CORES

(See Patterns & Core Boxes)

Catalytic Fume Burner Deodorizes Core Oven Exhaust, Dec., p 144

Control Catalyst for Hot Box Success: K. J. Siegfried, Oct., p 56

Core Binder Properties: Joshua Pelleg, Jan., p 105

Custom Job Shop Profits from New Furan Binder: J. H. Schaum, Jan., p 38

Develop Quality Tests for CO₂ Process: AFS Sand Div. Core Test Committee (8-C), Jan., p 46

Foundry Binders Based on Cellulose Derivatives: Rolf E. Moren, June, p 82

Olivine Sand Use in Swedish Steel Foundries: K. Beckius, P. Flodberg and S. Forslund, May, p 126

Which Core Process?: E. S. Valentine, Nov., p 45

COSTS

Cleaning Room Grinding: T. E. Martin, Dec., p 109

Computing Metal Loss In Melting Operations: J. G. House and T. E. Yerina, Dec., p 76

Cost Reduction—Passport to Survival: C. J. McFayden, July, p 26

Don't Worry, We're Insured!: H. J. Weber, Jan., p 36

Evaluating Grinding Costs: Robert D. Lane, Oct., p 62

Modernization Cuts Cleaning Costs, March, p 52

Multiple Regression Analysis for Labor Cost Determination: Charles R. Ferguson, March, p 92

Throw a Curve at Your Costs: Hans J. Heine, Lee P. Burgess, Dorian Shainin, Aug., p 36

Waste Disposal System Saves Money and Manpower, Feb., p 59

CO₂ PROCESS

CO₂ Process: Leo Petrzela and Josef Gajdusek, Feb., p 67

Develop Quality Tests for CO₂ Process: AFS Sand Div. Core Test Committee (8-C), Jan., p 46

Foundry Binders Based on Cellulose Derivatives: Rolf E. Moren, June, p 82

Gassed CO₂—Sodium Silicate Bonded Sand Testing Under Compression, April, p 82

COVER STORY

Aluminum Castings for Electronic Communications, Oct., p 59

Boats and Ships—Prime Metalcasting Markets, March, p 45

Bronze Cookie Die Cast in Waterless Sand, April, p 56

Cast Iron Enamelware, Nov., p 44

Casting a Thistle, Dec., p 40

Designer Is Key to More Heavy Equipment Business, Jan., p 31

From Atoms to Kilowatts, Aug., p 43

Investment Casting for Jewelry and Jets, Feb., p 55

Lightweight Castings for Go Karts, June, p 47

MC Cover Reflects Spirit of Detroit, May, p 50

Massive Castings Help Distill Oceans' Water, Sept., p 41

Monorail Castings, July, p 70

CUPOLA

Cast Iron Melting In Electric Arc

And Induction Furnaces: B. Marincek, Dec., p 99

Design of a Gas Fired Cupola, Sept., p 75

Eutectic Carbide—Eight-way Aid for Cupolas, Sept., p 37

Experimental Cupola Plant Experiences: H. J. Leyshon and R. B. Coates, Jan., p 73

Forest City Uses New Concept in Pyrometry: Jack H. Schaum, June, p 44

New Process for Shell Sand Regenerating and Cupola Preheating: I. Kutny and P. E. Biron, May, p 163

What About Continuous Cupola Charging?, Nov., p 48

DESIGN

Computer Designs Metalcasting Alloys, Oct., p 54

Designer Is Key to More Heavy Equipment Business, Jan., p 31

Proper Pattern And Casting Design To Control Defects: J. W. Costello, Dec., p 87

Requirements for Successful Production of Automotive Gray Iron Castings: R. W. Schowalter, Sept., p 113

What Does the Automotive Turbine Mean to Metalcasters?: Robert Minor, April, p 47

DIE CASTING

Aluminum Die Casting and Factors Affecting Pressure Tightness: Donald L. La Velle, Aug., p 51

Automation, Productivity Stressed by Die Casters in Detroit, Nov., p 120

Brass Die Casting: S. A. Tall and J. R. Beetham, Jan., p 91

Controlling Operational Variables in Die Casting: H. K. Barton, May, p 152

Die Casting Automotive Trim: R. J. Carroll, Sept., p 101

Lightweight Castings for Go Karts, June, p 47

Magnesium Die Casting Equipment and Metal Preparation: N. Sheptak, Nov., p 99

Relationship Between Machine Clamp and Casting Area in Aluminum Die Casting: David J. Sloane, June, p 114

DUCTILE (NODULAR) IRON

Alloy Cast Irons in Great Britain, Sept., p 106

Carbon Equivalent in 60 Seconds, March, p 37

Cast Iron Improvement by Oxygen Lancing: Tomojiro Tottari and Isao Aoki, Jan., p 97

Eutectic Carbide—Eight-way Aid for Cupolas, Sept., p 37

Factors Affecting Growth of Spheroidal Graphite: I. Minkoff, Jan., p 66

International Proposals for Cast

Iron Graphite Classification: A. B. Everest, April, p 86

Large Ductile Iron Castings Production: Kanshichi Tanaka, May, p 111

New Furnace Designed for Custom Melting, July, p 34

Progress and Problems in the Understanding of Cast Irons: Henton Morrogh, July, p 37

Shell Molding Applied to a Hundred Automobile Parts: Sept., p 92

EDUCATION

Training in Danish Foundry Industry: Ove Hoff, April, p 99

Generating Quality And Productivity Improvement Using Motivational And Educational Techniques: C. A. Schneider and W. H. Howells, Dec., p 94

FURAN BINDERS

Control Catalyst for Hot Box Success: K. J. Siegfried, Oct., p 56

Custom Job Shop Profits from New Furan Binder: J. H. Schaum, Jan., p 38

Hazards from Use of Resinous Binders: Report of AFS Sand Division Committee 8-N, April, p 129

FURNACES

Automatic Furnace Line Doubles Pearlite Production: Al Regelbrugge and James Whittman, Sept., p 52

Cast Iron Melting In Electric Arc And Induction Furnaces: B. Marincek, Dec., p 99

New Burner Design Speeds Aluminum Melting: John H. Keating, Jan., p 44

New Furnace Designed For Custom Melting, July, p 34

Study of Mechanism of Melting Cast Iron with Hot Gases: Henry De Rycker, July, p 47

GATING & RISERING

Better Gating Eliminates Shrinkage: AFS Committee 8-S, May, p 49

Calculating Ingate Dimensions for Gray Iron Castings: Evert Bjorklund, April, p 69

Explosive Embedment Anchor for Vessel Mooring Systems: William H. Baer, March, p 115

Feeding and Structural Characteristics of Some Typical Casting Alloys: W. R. Roberts and V. Kondic, Oct., p 67

GRAY IRON

Add Copper to Gray Iron . . . For Dynamic Precision, Dec., p 42

Cast Iron Melting In Electric Arc And Induction Furnaces: B. Marincek, Dec., p 99

Alloy Cast Irons in Great Britain: J. G. Pearce, Sept., p 106

Alloyed Gray Cast Iron for Machine Components: Albert De Sy, June, p 62

Antimony Treated Cast Iron: J. Pelleg, Aug., p 76

Better Gating Eliminates Shrinkage: AFS Committee 8-S, May, p 49

Calculating Ingate Dimensions for Gray Iron Castings: Evert Bjorklund, April, p 69

Carbon Equivalent in 60 Seconds, March, p 37

Cast Iron Damping Capacity Structure and Property Relations: Elisabeth Plenard, May, p 144

Cast Iron Enamelware: Nov., p 44

Cast Iron Improvements by Oxygen Lancing: Tomojiro Tottori and Isao Aoki, Jan., p 97

Cast Iron Structure and Properties: Wilhelm Patterson, March, p 104

Copper As an Alloy in Iron Castings: W. E. Day, Nov., p 87

Custom Job Shop Profits from New Furan Binder: J. H. Schaum, Jan., p 38

Eutectic Carbide—Eight-way Aid for Cupolas: Sept., p 37

Experimental Cupola Plant Experiences: H. J. Leyshon and R. B. Coates, Jan., p 73

Explore New Areas in Iron—Morrogh: Hoyt Lecture, May, p 93

Forest City Uses New Concept In Pyrometry: Jack H. Schaum, June, p 44

Formation of Slags in Cast Iron and Effect on Casting: A. Dahlmann and K. Loehberg, Oct., p 102

Gray Cast Iron Control By Cooling Curve Techniques: H. A. Redshaw, C. A. Payne, and J. A. Hoskins, Feb., p 91

How General Metals Fought Back, June, p 48

How To Prevent Inverse Chill In Gray Iron, March, p 55

Inoculation Effect On Graphite Formation in Pure Fe-C and Fe-C-Si: B. Lux and H. Tannenberger, March, p 57

International Proposals For Cast Iron Graphite Classification: A. B. Everest, April, p 86

Massive Castings Help Distill Oceans' Water: Sept., p 40

New Furnace Designed For Custom Melting, July, p 34

Permanent Mold Casting: Rafael M. Teillet, May, p 103

Preliminary Draft, International Recommendations, Gray Iron Charpy Impact Test: H. T. Angus, Sept., p 57

Progress And Problems In The Understanding of Cast Irons: Henton Morrogh, July, p 37

Requirements For Successful Production Of Automotive Gray Iron Castings: R. W. Schowalter, Sept., p 113

Shell Molding Applied To A Hundred Automobile Parts: Tokinosuke Murao, Sept., p 92

Study of Mechanism of Melting Cast

Iron With Hot Gases: Henry De Rycker, July, p 47
They Said It Couldn't Be Done: Lester B. Knight, Nov., p 38

GRAY IRON FOUNDERS' SOCIETY

Iron Casters Inaugurate \$100,000 Promotion Plan, May, p 194

HEAT TREATING

Automatic Furnace Line Doubles Pearlitic Production: Al Regelbrugge and James Whittman, Sept., p 52
Heat Treatment of Cast Magnesium-Zinc-Zirconium Alloy: S. Morozumi, June, p 57

High Strength Steel Castings Aluminum Nitride Embrittlement: R. F. Harris and G. D. Chandley, March, p 97

Vanadium Effect On White Cast Iron Graphitization Kinetics: G. Sandoz, April, p 94

White Cast Iron Inoculation Effect On Graphitization: G. Sandoz, Jan., p 61

HYGIENE

Hazards From Use of Resinous Binders: Report of AFS Sand Division Committee 8-N, April, p 129

INTERNATIONAL FOUNDRY CONGRESS

Congress, Exposition Makes Impact on World Metalcasters, June, p 130
\$2,500,000 "Package" of Validated New Technology, May, p 52

INVESTMENT CASTING

Castings a Thistle, Dec., p 40
Investment Casters Aim at \$100 Million Sales In 1962, Feb., p 50
Investment Casting for Jewelry and Jets, Feb., p 55

INVESTMENT CASTING INSTITUTE

Investment Casters Select R. E. Gray, Jan., p 127

LET' LOOK AT . . .

H. E. Green

A Costly Leadership Package!, May, p 5
Common Market Competition, June, p 5
Editorial Enterprise and Profits, April, p 5
148,000 Opportunities!, Jan., p 5
Operation Survival, July, p 4
Something of Great Value, March, p 5
Why MODERN CASTINGS Leads, Feb., p 5

MAGNESIUM

Heat Treatment of Cast Magnesium-Zinc-Zirconium Alloy: S. Morozumi, June, p 57
Lightweight Castings for Go Karts, June, p 47

Magnesium Die Casting Equipment and Metal Preparation: N. Sheptak, Nov., p 99

MAINTENANCE

Polyurethane—a Maintenance Breakthrough: Jack H. Schaum, July, p 23
Urethane Elastomers in the Foundry: Richard J. Gallagher, Nov., p 55

MALLEABLE IRON

Alloys Cast Irons in Great Britain: J. G. Pearce, Sept., p 106

Automatic Furnace Line Doubles Pearlitic Production: Al Regelbrugge and James Whittman, Sept., p 52
Eutectic Carbide—Eight-way Aid for Cupolas, Sept., p 37

Excess Moisture Causes Rattail, June, p 54

International Proposals for Cast Iron Graphite Classification: A. B. Everest, April, p 86

Modernization Cuts Cleaning Costs, March, p 52

Throw a Curve at Your Costs, August, p 36

Vanadium Effect on White Cast Iron Graphitization Kinetics: G. Sandoz, April, p 94

White Cast Iron Inoculation Effect on Graphitization: G. Sandoz, Jan., p 61

MANAGEMENT

Advertisers' Showcase, May, p 200
Better Communications Mean Better Production Control: Forest E. Noggle, Feb., p 62

Boats and Ships—Prime Metalcasting Markets, March, p 45

Business Should Be Good!: Modern Castings Trends Panel Report, May, p 41

Carrier Quality—Mark of Distinction for Metalcastings: Jack H. Schaum, Dec., p 37

Cleaning Room Grinding: T. E. Martin, Dec., p 109

Cost Reduction—Passport to Survival: C. J. McFayden, July, p 26

Designer Is Key to More Heavy Equipment Business, Jan., p 31

Don't Worry, We're Insured!: H. J. Weber, Jan., p 36

Europe Moves Ahead—Sets Fast Pace in Technology, Modernization: Jack H. Schaum, May, p 68

Five Point Program for Effective Selling: Jack H. Schaum, April, p 58

Generating Quality And Productivity Improvement Using Motivational And Educational Techniques: C. A. Schneider, W. H. Howells, Dec., p 94

How Allis-Chalmers Buys Castings, Aug., p 33

How General Metals Fought Back, June, p 48

How to Get Military Contracts: W. R. Fingal, April, p 62

Investment Casters Aim at \$100 Million Sales in 1962, Feb., p 50

Know Your Manufacturing Costs, Oct., p 60

"Life" or "Death" for the Pattern Industry: David Baker, Aug., p 73

Management Techniques and Production Control: Karl T. Rinderle, June, p 100

Meet Today's Competition with Solid Salesmanship, March, p 40

Metalcasters Must Plan for Larger World Trade Role: Robert Minor, May, p 46

Midwest Marketing Conference Sets New Pace for Metalcasters, March, p 128

Modernization Cuts Cleaning Costs, March, p 52

Modernization Is Key to Textile Expansion, June, p 51

Multiple Regression Analysis for Labor Cost Determination: Charles R. Ferguson, March, p 92

New Foundry Methods And Materials Bring New Liabilities: George E. Tubich, Dec., p 82

New Technology Expands Centrifugal Casting Horizon, April, p 50

Permanent Molding Gains in Mass Markets, July, p 29

Profit Sharing Pays Off for Metalcasters, Feb., p 47

Progress and Problems in the Understanding of Cast Irons: Henton Morrogh, July, p 37

Pyle National Needs Castings in a Hurry: Jack H. Schaum, Oct., p 51

Quick Reaction Capability: Jack H. Schaum, Nov., p 35

Sound Depreciation Program Urged by MODERN CASTINGS Trends Panel, May, p 45

Suppliers' Directory, 1962, May, p 226

They Said It Couldn't Be Done: Lester B. Knight, Nov., p 38

Training in Danish Foundry Industry: Ove Hoff, April, p 99

Throw a Curve at Your Costs: Hans J. Heine, Lee P. Burgess, Dorian Shainin, Aug., p 36

Waste Disposal Systems Save Money and Manpower, Feb., p 59

What Does the Automotive Turbine Mean to Metalcasters?: Robert Minor, April, p 47

What Metalcasters See for '63, Dec., p 44

What They Said in Detroit!, June, p 39

MARKET OPPORTUNITIES

Boats and Ships—Prime Metalcasting Markets, March, p 45

Carrier Quality—Mark of Distinction for Metalcastings: Jack H. Schaum, Dec., p 37

Cast Iron Enamelware, Nov., p 44

Designer Is Key to More Heavy Equipment Business, Jan., p 31

European Common Market Nations

Must Solve Many Problems, June, p 42
 From Atoms to Kilowatts, Aug., p 43
 How Allis-Chalmers Buys Castings, Aug., p 33
 Investment Casters Aim at \$100 Million Sales in 1962, Feb., p 50
 Lightweight Castings for Go Karts, June, p 47
 Metalcasters Must Plan for Larger World Trade Role: Robert Minor, May, p 46
 Midwest Marketing Conference Sets New Pace for Metalcasters, March, p 128
 Modernization Is Key to Textile Expansion, June, p 51
 New Technology Expands Centrifugal Casting Horizon, April, p 47
 Permanent Molding Gains in Mass Markets, July, p 29
 Pyle National Needs Castings in a Hurry: Jack H. Schaum, Oct., p 51
 Quick Reaction Capability: Jack H. Schaum, Nov., p 35

MATERIAL HANDLING

Allis-Chalmers Offers Electric Fork Trucks, Nov., p 134
 Driverless Trucks Increase Production, April, p 60
 High Speed Molding Takes High Speed Handling, Jan., p 41
 Urethane Elastomers in the Foundry: Richard J. Gallagher, Nov., p 55

MECHANIZATION

Controlling Operational Variables in Die Casting: H. K. Barton, May, p 152
 Driverless Trucks Increase Production, April, p 60
 High Speed Molding Takes High Speed Handling, Jan., p 41
 Modernization Cuts Cleaning Costs, March, p 52
 They Said It Couldn't Be Done: Lester B. Knight, Nov., p 38
 What About Continuous Cupola Charging, Nov., p 48

MELTING PRACTICES

Carbon Equivalent in 60 Seconds, March, p 37
 Cast Iron Improvement by Oxygen Lancing: Tomojiro Tottori and Isao Aoki, Jan., p 97
 Cast Iron Melting In Electric Arc And Induction Furnaces: B. Marincek, Dec., p 99
 Cast Steel Deoxidation To Vacuum Melted Levels Without Vacuum Processing: E. J. Dunn, Jr., Dec., p 57
 Computing Metal Loss In Melting Operations: J. G. House and T. E. Yerina, Dec., p 76
 Design of a Gas Fired Cupola: Carl R. Loper, Jr., Sept., p 75
 Eutectic Carbide—Eight-way Aid for Cupolas, Sept., p 37
 Experimental Cupola Plant Experiences: H. J. Leyshon and R. B. Coates, Jan., p 73

Explosive Embedment Anchor for Vessel Mooring Systems: William H. Baer, March, p 115
 Formation of Slags in Cast Iron and Effect on Casting: A. Dahlmann and K. Loehberg, Oct., p 102
 High Strength Steel Castings Aluminum Nitride Embrittlement: R. F. Harris and G. D. Chandley, March, p 97
 Importance of Charge Makeup, Melting Conditions and Fluxing in Copper Alloys: Pierre-Julien Le Thomas and Dominique Arnaud, June, p 105
 Inoculation Effect on Graphite Formation in Pure Fe-C and Fe-C-Si: B. Lux and H. Tannenberger, March, p 57
 Magnesium Die Casting Equipment and Metal Preparation: N. Sheptak, Nov., p 99
 New Burner Design Speeds Aluminum Melting: John H. Keating, Jan., p 44
 New Furnace Designed for Custom Melting, July, p 34
 Nitrogen in Cast Steel: Vsevolod Kuhn and Pierre Detrez, July, p 57
 Study of Mechanism of Melting Cast Iron with Hot Gases: Henry De Rycker, July, p 47
 Thorium and Thorium-Uranium Alloy Vacuum Induction Melting and Casting: N. H. Katz, E. G. Kendall and M. H. Binstock, Nov., p 80
 White Cast Iron Inoculation Effect on Graphitization: G. Sandoz, Jan., p 61

MOLDS & MOLDING

Custom Job Shop Profits from New Furan Binder: J. H. Schaum, Jan., p 38
 Explosive Embedment Anchor for Vessel Mooring Systems: William H. Baer, March, p 115
 Foundry Binders Based on Cellulose Derivatives: Rolf E. Moren, June, p 82
 Green and Dry Sand Mold Water Evaporation by Heat Radiation and Conductance: Franz Hofmann, Jan., p 49
 Green Sand Scabbing Tendency Testing by Shock Heating: H. G. Levelink and H. Van den Berg, March, p 80
 High Speed Molding Takes High Speed Handling, Jan., p 41
 How To Control Expansion Defects: R. W. Heine, E. H. King, J. S. Schumacher, Dec., p 50
 MC Cover Reflects Spirit of Detroit, May, p 50
 Moldability and Mold Control: H. W. Deitert, A. L. Graham, R. T. Dakiewicz and T. H. Hanna, Sept., p 81
 New Moldability Controller Delivers Uniform Sand Mixes, Aug., p 40
 Non-Ferrous Sands—Naturally Bonded Or Synthetic?: R. F. Dalton, Dec., p 63
 Olivine Sand Use in Swedish Steel

Foundries: K. Beckius, P. Flodberg and S. Forslund, May, p 126
 Parameters Effect on Physical Properties of Plaster Molds: E. S. Johnson, Feb., p 117
 Rammed Sand Surfaces Study: J. B. Caine, E. H. King and J. S. Schumacher, Feb., p 122
 Steel Casting Production with Regulation of Cooling Process in the Mold: P. F. Vassilevsky and W. V. Shiriajev, Sept., p 62
 Waterless Sand Improves Finish: George Mott, April, p 54

NEW PRODUCT OF THE MONTH

Allis-Chalmers Offers Electric Fork Trucks, Nov., p 134
 Catalytic Fume Burner Deodorizes Core Oven Exhaust, Dec., p 144

NON DESTRUCTIVE TESTING (Including Stress Analysis)

Gray Cast Iron Control by Cooling Curve Techniques: H. A. Redshaw, C. A. Payne and J. A. Hoskins, Feb., p 91
 How to Design Defective Castings, Feb., p 56
 Quality Castings Demand Quality Refractories, March, p 48

PATTERNS & CORE BOXES

"Life" or "Death" for the Pattern Industry: David Baker, Aug., p 73
 Proper Pattern And Casting Design To Control Defects: J. W. Costello, Dec., p 87
 Requirements for Successful Production of Automotive Gray Iron Castings: R. W. Schowalter, Sept., p 113

PERMANENT MOLD CASTING

New Burner Design Speeds Aluminum Melting: John H. Keating, Jan., p 44
 Permanent Mold Castings: Rafael M. Teillet, May, p 103
 Permanent Molding Gains in Mass Markets, July, p 29

PLANT DESCRIPTION

They Said It Couldn't Be Done: Lester B. Knight, Nov., p 38

QUALITY CONTROL

Aluminum Die Casting and Factors Affecting Pressure Tightness: Donald L. La Velle, Aug., p 51
 Carbon Equivalent in 60 Seconds, March, p 37
 Cast Steel Analysis for Carbon and Alloys: K. R. Klumb, Feb., p 88
 Computer Designs Metalcasting Alloys, Oct., p 54
 Control Catalyst for Hot Box Success: K. J. Siegfried, Oct., p 56
 Develop Quality Tests for CO₂ Process: AFS Sand Division Core Test Committee (8-C), Jan., p 46
 Forest City Uses New Concept in Pyrometry: Jack H. Schaum, June, p 44

Formation of Slags in Cast Iron and Effect on Casting: A. Dahlmann and K. Loehberg, Oct., p 102

Gassed Co.—Sodium Silicate Bonded Sand Testing Under Compression, April, p 82

Gray Cast Iron Control by Cooling Curve Techniques: H. A. Redshaw, C. A. Payne and J. A. Hoskins, Feb., p 91

High Strength Steel Castings Aluminum Nitride Embrittlement: R. F. Harris and G. D. Chandley, March, p 97

How To Control Expansion Defects: R. W. Heine, E. H. King, J. S. Schumacher, Dec., p 50

How to Design Defective Castings, Feb., p 56

How to Prevent Inverse Chill in Gray Iron, March, p 55

Influence of Silicon on Gun Metal Alloys: L. A. DePue and W. A. Pennington, Oct., p 122

Inoculation Effect on Graphite Formation in Pure Fe-C and Fe-C-Si: B. Lux and H. Tannenberger, March, p 57

Moldability and Mold Control: H. W. Dietert, A. L. Graham, R. T. Dakiewicz and T. H. Hanna, Sept., p 81

New Moldability Controller Delivers Uniform Sand Mixes, Aug., p 40

Olivine Sand Use in Swedish Steel Foundries: K. Beckius, P. Flodberg and S. Forslund, May, p 126

Parameters Effect on Physical Properties of Plaster Molds: E. S. Johnson, Feb., p 117

Proper Pattern And Casting Design To Control Defects: J. W. Costello, Dec., p 87

Quality Castings Demand Quality Refractories, March, p 48

Statistical Study of Foundry Practice: Roger W. Hood, Aug., p 69

Throw a Curve at Your Costs: Hans J. Heine, Lee P. Burgess, Dorian Shainin, Aug., p 36

REFRACTORIES

Quality Castings Demand Quality Refractories, March, p 48

SAFETY

Don't Worry, We're Insured!: H. J. Weber, Jan., p 36

Hazards from Use of Resinous Binders: Report of AFS Sand Division Committee 8-N, April, p 129

SAFETY-HYGIENE-AIR POLLUTION

Catalytic Fume Burner Deodorizes Core Oven Exhaust, Dec., p 144

Heat Stress Measurement in Working Conditions: R. S. McClintock and W. F. Lienhard, Nov., p 49

New Foundry Methods And Materials Bring New Liabilities: George E. Tubich, Dec., p 82

H. J. Weber

And Now, It's Water Pollution, Jan., p 23

Do Foundry Wastes Pollute Our Waterways?, May, p 38

Do You Make Castings for the Government?, April, p 29

If Your Foundry Is Hot Buy a Toilet Float, July, p 19

Now Hear This—Do You Read Me?, Feb., p 41

Odors—Are they an air pollution Nuisance?, Nov., p 9

Salmagundi—A Mess Worth Thinking About, March, p 25

The Anatomy of a Rumor—Teflon Is Deadly!, Herbert J. Weber, Sept., p 13

The Silk Worm and the Wise Owl, Oct., p 11

Vignettes From Here and There, Dec., p 9

We Can't Afford a Nurse!, June, p 27

We Were Here First! You Can't Sue Us, Aug., p 25

SALES

Advertisers' Showcase, May, p 200

Boats and Ships—Prime Metalcasting Markets, March, p 45

Business Should Be Good!: Modern Castings Trends Panel Report, May, p 41

Carrier Quality—Mark of Distinction for Metalcastings: Jack H. Schaum, Dec., p 37

Designer Is Key to More Heavy Equipment Business, Jan., p 31

European Common Market Nations Must Solve Many Problems, June, p 42

Five Point Program for Effective Selling: Jack H. Schaum, April, p 58

How Allis-Chalmers Buys Castings, Aug., p 33

How to Get Military Contracts: W. R. Fingal, April, p 62

Investment Casters Aim at \$100 Million Sales in 1962, Feb., p 50

It Takes Sales Engineers to Sell Engineered Castings: Sept., p 42

Meet Today's Competition with Solid Salesmanship, March, p 40

Metalcasters Must Plan for Larger World Trade Role: Robert Minor, May, p 46

Midwest Marketing Conference Sets New Pace for Metalcasters, March, p 128

Modernization Is Key to Textile Expansion, June, p 51

New Technology Expands Centrifugal Casting Horizon, April, p 50

Permanent Molding Gains in Mass Markets, July, p 29

Pyle National Needs Castings in a Hurry: Jack H. Schaum, Oct., p 51

Quick Reaction Capability: Jack H. Schaum, Nov., p 35

What Does the Automotive Turbine Mean to Metalcasters?: Robert Minor, April, p 47

What Metalcasters See for '63, Dec., p 44

What They Said in Detroit!, June, p 39

SAND & ADDITIVES

Control Catalyst for Hot Box Success: K. J. Siegfried, Oct., p 56

Core Binder Properties: Joshua Pelleg, Jan., p 105

CO₂ Process: Leo Petrzela and Josef Gajdusek, Feb., p 67

Custom Job Shop Profits from New Furan Binder: J. H. Schaum, Jan., p 38

Foundry Binders Based on Cellulose Derivatives: Rolf E. Moren, June, p 82

Green and Dry Sand Mold Water Evaporation by Heat Radiation and Conductance: Franz Hofmann, Jan., p 49

Green Sand Scabbing Tendency Testing by Shock Heating: H. G. Leve-link and H. Van den Berg, March, p 80

Hazards from Use of Resinous Binders: Report of AFS Sand Division Committee 8-N, April, p 129

How To Control Expansion Defects: R. W. Heine, E. H. King, J. S. Schumacher, Dec., p 50

Micromeritics As Applied to Foundry Sands: Matt Granlund, Jan., p 85

Moldability and Mold Control: H. W. Dietert, A. L. Graham, R. T. Dakiewicz and T. H. Hanna, Sept., p 81

New Moldability Controller Delivers Uniform Sand Mixes, Aug., p 40

New Process for Shell Sand Regenerating and Cupola Preheating: I. Kutny and P. E. Biron, May, p 163

Non-Ferrous Sands—Naturally Bonded Or Synthetic?: R. F. Dalton, Dec., p 63

Olivine Sand Combined Moisture Study: P. W. Ford, Aug., p 58

Olivine Sand Use in Swedish Steel Foundries: K. Beckius, P. Flodberg and S. Forslund, May, p 126

Problems in Sampling and Sieve Testing Sand: Paul Close, Nov., p 103

Rammed Sand Surfaces Study: J. B. Caine, E. H. King and J. S. Schumacher, Feb., p 122

Slurry System Proves Cost Cutter, Aug., p 44

Waterless Sand Improves Finish: George Mott, April, p 54

Which Core Process?: E. S. Valentine, Nov., p 45

SHELL MOLDING, BLOWING & CASTING

Hazards from Use of Resinous Binders: Report of AFS Sand Division Committee 8-N, April, p 129

New Process for Shell Sand Regenerating and Cupola Preheating: I. Kutny and P. E. Biron, May, p 163

Shell Molding Applied to a Hundred

Automobile Parts: Tokinosuke Murao, Sept., p 92

SOLIDIFICATION STUDIES

Al-7 Si-0.3Mg Alloy Simple and Complex Mold Casting Characteristics: G. Bracale, April, p 104

Factors Affecting Growth of Spheroidal Graphite: I. Minkoff, Jan., p 66

Feeding and Structural Characteristics of Some Typical Casting Alloys: W. R. Roberts and V. Kondic, Oct., p 67

Flowability and Viscosity: P. Bastien, J. C. Armbruster and P. Azou, June, p 72

Inoculation Effect on Graphite Formation in Pure Fe-C and Fe-C-Si: B. Lux and H. Tannenberger, March, p 57

Steel Casting Production with Regulation of Cooling Process in the Mold: P. F. Vassilevsky and W. V. Shiriajev, Sept., p 62

Theory of Solidification and Method for Directly Following Its Progress: Stanislav Simonik, Oct., p 112

STEEL

Belgian Foundry Research, Dec., p 47

Cast Steel Analysis for Carbon and Alloys: K. R. Klumb, Feb., p 89

Cast Steel Deoxidation To Vacuum Melted Levels Without Vacuum Processing: E. J. Dunn, Jr., Dec., p 57

Charpy Test for Steel: W. K. Bock, Aug., p 65

CO₂ Process: Leo Petrzela and Josef Gajdusek, Feb., p 67

High Strength Steel Castings Aluminum Nitride Embrittlement: R. F. Harris and G. D. Chandley, March, p 97

How General Metals Fought Back, June, p 48

How to Design Defective Castings, Feb., p 56

It Takes Sales Engineers to Sell Engineered Castings: Sept., p 42

Nitrogen in Cast Steel: Vsevolod Kuhn and Pierre Detrez, July, p 57

Olivine Sand Use in Swedish Steel Foundries: K. Beckius, P. Flodberg and S. Forslund, May, p 126

Steel Casting Production with Regulation of Cooling Process in the Mold: P. F. Vassilevsky and W. V. Shiriajev, Sept., p 62

They Said It Couldn't Be Done: Lester B. Knight, Nov., p 38

STEEL FOUNDERS' SOCIETY

S. F. S. A. Names Contest Winners, Jan., p 116

Steel Founders Conduct Technical Conference, Jan., p 118

TESTING

Antimony Treated Cast Iron: J. Pelleg, Aug., p 76

Carbon Equivalent in 60 Seconds, March, p 37

Cast Iron Structure and Properties: Wilhelm Patterson, March, p 104

Cast Steel Analysis for Carbon and Alloys: K. R. Klumb, Feb., p 88

Charpy Test for Steel: W. K. Bock, Aug., p 64

Develop Quality Tests for CO₂ Process: AFS Sand Division Core Test Committee (8-C), Jan., p 46

Flowability and Viscosity: P. Bastien, J. C. Armbruster and P. Azou, June, p 72

Fluidity of Zinc-Aluminum Alloy: Virgil R. Friebe and William P. Roe, Sept., p 117

Forest City Uses New Concept in Pyrometry: Jack H. Schaum, June, p 44

Gassed CO₂-Sodium Silicate Bonded Sand Testing Under Compression, April, p 82

Gray Cast Iron Control by Cooling Curve Techniques: H. A. Redshaw, C. A. Payne and J. A. Hoskins, Feb., p 91

Green Sand Scabbing Tendency Testing by Shock Heating: H. G. Levelink and H. van den Berg, March, p 80

Moldability and Mold Control: H. W. Dietert, A. L. Graham, R. T. Dakiewicz and T. H. Hanna, Sept., p 81

New Moldability Controller Delivers Uniform Sand Mixes, Aug., p 40

Olivine Sand Combined Moisture Study: P. W. Ford, Aug., p 58

Parameters Effect on Physical Properties of Plaster Molds: E. S. Johnson, Feb., p 117

Preliminary Draft, International Recommendations, Gray Iron Charpy Impact Test: H. T. Angus, Sept., p 57

Problems in Sampling and Sieve Testing Sand: Paul Close, Nov., p 103

Quality Castings Demand Quality Refractories, March, p 48

Rammed Sand Surfaces Study: J. B. Caine, E. H. King and J. S. Schumacher, Feb., p 122

Statistical Study of Foundry Practice: Roger W. Hood, Aug., p 69

TRADE ASSOCIATIONS

Ductile Iron Society Reports Progress, Dec., p 116

Gray Iron Founders' Society Annual Meeting, Dec., p 119

Non-Ferrous Founders' Emphasize Marketing, Dec., p 141

TRENDS IN EDUCATION

R. E. Betterley

A Good Speaker Can Slip With Poor Slides, Dec., p 11

"Circular File," Feb., p 38

Co-op Plan in Engineering Education, May, p 31

"Cold Water" Period, April, p 30

Good Engineers Need Good Technicians, July, p 21

How Industry Looks at Industrial Arts, Aug., p 22

I'm from Missouri, Jan., p 24

Manpower Development and Training, Oct., p 12

Obsolescence and Men, June, p 25

Profitable Meeting Participation: Sept., p 11

"Right From the Horse's Mouth", Nov., p 11

Whole Story, March, p 26

TRENDS PANEL REPORTS

Business Should Be Good!, May, p 41

Know Your Manufacturing Costs, Oct., p 60

Productivity Is Key to Profitability, Sept., p 45

What Metalcasters See for '63, Dec., p 44

ZINC

Controlling Operational Variables in Die Casting: H. K. Barton, May, p 152

Die Casting Automotive Trim: R. J. Carroll, Sept., p 101

Fluidity of Zinc-Aluminum Alloy: Virgil R. Friebe and William P. Roe, Sept., p 117

AUTHORS

A

Angus, H. T.: Preliminary Draft, International Recommendations, Gray Iron Charpy Test, Sept., p 57

Aoki, Isao and Tomojiro Tottori: Cast Iron Improvement by Oxygen Lancing, Jan., p 97

Armbruster, J. C., P. Bastien, and P. Azou: Flowability and Viscosity, June, p 72

Arnaud, Dominique and Pierre-Julien Le Thomas: Importance of Charge Makeup, Melting Conditions and Fluxing in Copper Alloys, June, p 105

Azou, P., P. Bastien, and J. C. Armbruster: Flowability and Viscosity, June, p 72

B

Baer, William H.: Explosive Embedment Anchor for Vessel Mooring Systems, March, p 115

Baker, David: "Life" or "Death" for the Pattern Industry, Aug., p 73

Barlow, T. E.: Run-out or Run-in, Sept., p 54

Barlow, T. E.: Design vs. Ingenuity, Oct., p 64

Barlow, T. E.: Proper Gating Is Important, Nov., p 43

Barton, H. K.: Controlling Operational Variables in Die Casting, May, p 152

Bastien, P., J. C. Armbruster and P. Azou: Flowability and Viscosity, June, p 72

Beckius, K., P. Flodberg and S. Forslund: Olivine Sand Use in Swedish Steel Foundries, May, p 126

Beetham, J. R. and S. A. Tall: Brass Die Casting, Jan., p 91

Binstock, M. H., N. H. Katz, and E. G. Kendall: Thorium and Thorium-Uranium Alloy Vacuum Induction Melting and Casting, Nov., p 80

Biron, P. E. and I. Kutny: New Process for Shell Sand Regenerating and Cupola Preheating, May, p 163

Bjorklund, Evert: Calculating Ingate Dimensions for Gray Iron Castings, April, p 69

Bock, W. K.: Charpy Test for Steel, Aug., p 64

Bracale, G.: Al-7Si-0.3 Mg Alloy Simple and Complex Mold Casting Characteristics, April, p 104

Burgess, Lee P., Hans J. Heine and Dorian Shainin: Throw a Curve at Your Costs, Aug., p 36

C

Caine, J. B., E. H. King and J. S. Schumacher: Rammed Sand Surfaces Study, Feb., p 122

Carroll, R. J.: Die Casting Auto Trim, Sept., p 101

Chandley, G. D. and R. F. Harris: High Strength Steel Castings Aluminum Nitride Embrittlement, March, p 97

Close, Paul: Problems in Sampling and Sieve Testing Sand, Nov., p 103

Coates, R. B. and H. J. Leyshon: Experimental Cupola Plant Experiences, Jan., p 73

Costello, J. W., Proper Pattern And Casting Design To Control Defects: Dec., p 87

D

Dahlman, A. and K. Loehberg: Formation of Slags in Cast Iron and Effect on Castings, Oct., p 102

Daksiewicz, R. T., H. W. Dietert, A. L. Graham, T. H. Hanna: Moldability and Mold Control, Sept., p 81

Day, W. E.: Copper as an Alloy in Iron Castings, Nov., p 87

DePue, L. A. and W. A. Pennington: Influence of Silicon on Gun Metal Alloys, Oct., p 122

De Rycker, Henry: Study of Mechanism of Melting Cast Iron with Hot Gases, July, p 47

De Sy, Albert: Alloyed Gray Cast Iron for Machine Components, June, p 62

Detrez, Pierre and Vsevolod Kuhn: Nitrogen in Cast Steel, July, p 57

Dietert, H. W., A. L. Graham, R. T. Daksiewicz and T. H. Hanna: Moldability and Mold Control, Sept., p 81

Dunn, E. J., Jr.: Cast Steel Deoxidation To Vacuum Melted Levels Without Vacuum Processing: Dec., p 57

Dalton, R. F.: Non-Ferrous Sands—Naturally Bonded Or Synthetic?: Dec., p 63

E

Everest, A. B.: International Proposals for Cast Iron Graphite Classification, April, p 86

F

Ferguson, Charles R.: Multiple Regression Analysis for Labor Cost Determination, March, p 92

Fingal, W. R.: How to Get Military Contracts, April, p 62

Flodberg, P., S. Forslund and K. Beckius: Olivine Sand Use in Swedish Steel Foundries, May, p 126

Ford, P. W.: Olivine Sand Combined Moisture Study, Aug., p 58

Forslund, S., K. Beckius and P. Flodberg: Olivine Sand Use in Swedish Steel Foundries, May, p 126

Fox, D. K.: Stress Corrosion Susceptibility Of Modified High Strength Yellow Brass Casting Alloys: Dec., p 51

Friebe, V. R. and Roe, W. P.: Fluidity of Zinc-Aluminum Alloys, Sept., p 117

G

Gajdusek, Josef and Leo Petrzela: The CO₂ Process, Feb., p 67

Gallagher, Richard J.: Urethane Elastomers in the Foundry, Nov., p 55

Graham, A. L., H. W. Dietert, R. T. Daksiewicz and T. H. Hanna: Moldability and Mold Control, Sept., p 81

Granlund, Matt: Micromeritics As Applied to Foundry Sands, Jan., p 85

H

Hanna, T. H., H. W. Dietert, A. L. Graham, R. T. Daksiewicz: Moldability and Mold Control, Sept., p 81

Harris, R. F. and G. D. Chandley: High Strength Steel Castings Aluminum Nitride Embrittlement, March, p 97

Heine, Hans J., Lee P. Burgess and Dorian Shainin: Throw a Curve at Your Costs, Aug., p 36

Heine, R. W., E. H. King, J. S. Schumacher, How To Control Expansion Defects: Dec., p 50

Hoff, Ove: Training in Danish Foundry Industry, April, p 99

Hofmann, Franz: Green and Dry Sand Mold Water Evaporation by Heat Radiation and Conductance, Jan., p 49

Hohn, F. H.: Quality Castings Demand Quality Refractories, March, p 48

Hood, Roger W.: Statistical Study of Foundry Practice, Aug., p 69

Hoskings, J. A., H. A. Redshaw, and C. A. Payne: Gray Cast Iron Control by Cooling Curve Techniques, Feb., p 91

House, J. G., T. E. Yerina, Computing Metal Loss in Melting Operations: Dec., p 76

Howells, W. H., C. A. Schneider, Generating Quality And Productivity Improvement Using Motivational And Educational Techniques: Dec., p 94

J

Johnson, E. S.: Parameters' Effect on Physical Properties of Plaster Molds, Feb., p 117

K

Katz, N. H., E. G. Kendall, and M. H.

Binstock: Thorium and Thorium-Uranium Alloy Vacuum Induction Melting and Casting, Nov., p 80

Keating, John H.: New Burner Design Speeds Aluminum Melting, Jan., p 44

Kendall, E. G., N. H. Katz, M. H. Binstock: Thorium and Thorium-Uranium Alloy Vacuum Induction Melting and Casting, Nov., p 80

King, E. H., J. B. Caine and J. S. Schumacher: Rammed Sand Surfaces Study, Feb., p 122

King, E. H., R. W. Heine, J. S. Schumacher, How To Control Expansion Defects: Dec., p 50

Klumb, K. R.: Cast Steel Analysis for Carbon and Alloys, Feb., p 88

Knight, Lester B.: They Said It Couldn't Be Done, Nov., p 38

Kondic, V. and W. R. Roberts: Feeding and Structural Characteristics of Some Typical Casting Alloys, Oct., p 67

Kuhn, Vsevolod and Pierre Detrez: Nitrogen in Cast Steel, July, p 57

Kutny, I. and P. E. Biron: New Process for Shell Sand Regenerating and Cupola Preheating, May, p 163

L

Lane, R. D.: Evaluating Grinding Costs, Oct., p 62

Langham, J. M. and A. W. O. Webb: New High Strength Copper Manganese Aluminum Alloys, Nov., p 62

LaVelle, Donald L.: Aluminum Die Casting and Factors Affecting Pressure Tightness, Aug., p 51

Le Thomas, Peirre-Julien and Dominique Arnaud: Importance of Charge Makeup, Melting Conditions and Fluxing in Copper Alloys, June, p 105

Levelink, H. G. and H. Van den Berg: Green Sand Scabbing Tendency Testing by Shock Heating, March, p 80

Leyshon, H. J. and R. B. Coates: Experimental Cupola Plant Experiences, Jan., p 73

Lienhard, W. F. and R. S. McClintock: Heat Stress Measurement in Working Conditions, Nov., p 49

Loehberg, K. and A. Dahlman: Formation of Slags in Cast Iron and Effect on Castings, Oct., p 102

Loper, Carl C.: Design of a Gas-Fired Cupola, Progress Report, Sept., p 75

Lux, B. and H. Tannenberger: Inoculation Effect on Graphite Formation in Pure Fe-C and Fe-C-Si, March, p 57

M

Marincek, B.: Cast Iron Melting in Electric Arc And Induction Furnaces: Dec., p 99

Martin, T. E.: Cleaning Room Grinding: Dec., p 109

McClintock, R. S. and W. F. Lienhard: Heat Stress Measurement in Working Conditions, Nov., p 49

McFayden, C. J.: Cost Reduction—Passport to Survival, July, p 26

Minkoff, I.: Factors Affecting Growth of Spheroidal Graphite, Jan., p 66

Minor, Robert: Metalcasters Must Plan

for Larger World Trade Role, May, p 46

Minor, Robert: What Does the Automotive Turbine Mean to Metalcasters?, April, p 47

Moren, Rolf E.: Foundry Binders Based on Cellulose Derivatives, June, p 82

Morozumi, S.: Heat Treatment of Cast Magnesium-Zinc-Zirconium Alloy, June, p 57

Morrogh, Dr. Henton: Explore New Areas in Iron, Hoyt Lecture, May, p 93

Morrogh, Henton: Progress and Problems in the Understanding of Cast Irons, July, p 37

Mott, George: Waterless Sand Improves Finish, April, p 54

Murao, Tokinosuke: Shell Molding Applied to 100 Auto Parts, Sept., p 92

N

Noggle, Forrest E.: Better Communications Mean Better Production Control, Feb., p 62

P

Patterson, Wilhelm: Cast Iron Structure and Properties, March, p 104

Payne, C. A., H. A. Redshaw and J. S. Hoskins: Gray Cast Iron Control by Cooling Curve Techniques, Feb., p 91

Pearce, J. G.: Alloy Cast Irons in Great Britain, Sept., p 106

Pelleg, J.: Antimony Treated Cast Iron, Aug., p 76

Pelleg, Joshua: Core Binder Properties, Jan., p 105

Pennington, W. A. and L. A. DePue: Influence of Silicon on Gun Metal Alloys, Oct., p 122

Petrzela, Leo and Joseph Gajdusek: The CO₂ Process, Feb., p 67

Plenard, Elisabeth: Cast Iron Dampening Capacity Structure and Property Relations, May, p 144

R

Redshaw, H. A., C. A. Payne and J. A. Hoskins: Gray Cast Iron Control by Cooling Curve Techniques, Feb., p 91

Regelbrugge, Al and J. Whittman: Automatic Furnace Line Doubles Pearlitic Production, Sept., p 52

Rentschler, Peter R.: Meet Today's Competition with Solid Salesmanship, March, p 40

Rinderle, Karl T.: Management Techniques and Production Control, June, p 100

Roberts, W. R. and V. Kondic: Feeding and Structural Characteristics of Some Typical Casting Alloys, Oct., p 67

Roe, W. P. and V. R. Friebe: Fluidity of Zinc-Aluminum Alloys, Sept., p 117
Rutkowski, Krzysztof: Cu-Al-Mn and Cu-Mn-Al Casting Alloys with Ni and Fe Additions, Feb., p 99

S

Sandoz, G.: Vanadium Effect on White

Cast Iron Graphitization Kinetics, April, p 94

Sandoz, G.: White Cast Iron Inoculation Effect on Graphitization, Jan., p 61

Schaaf, R. R., G. J. Vingas and E. Swing: Surface Finish of Castings, Oct., p 74

Schaum, Jack H.: Carbon Equivalent in 60 Seconds, March, p 37

Schaum, Jack H.: Carrier Quality — Mark of Distinction for Metalcastings: Dec., p 37

Schaum, Jack H.: Custom Job Shop Profits From New Furan Binder, Jan., p 39

Schaum, Jack H.: Europe Moves Ahead — Sets Fast Pace in Technology, Modernization, May, p 68

Schaum, Jack H.: Five Point Program for Effective Selling, April, p 58

Schaum, Jack H.: Forest City Uses New Concept in Pyrometry, June, p 44

Schaum, Jack H.: It Takes Sales Engineers to Sell Engineered Castings, Sept., p 42

Schaum, Jack H.: How Allis-Chalmers Buys Castings, Aug., p 33

Schaum, Jack H.: Investment Casters Aim at \$100 Million Sales in 1962, Feb., p 50

Schaum, Jack H.: Polyurethane — A Maintenance Breakthrough, July, p 23

Schaum, Jack H.: Pyle National Needs Castings in a Hurry, Oct., p 51

Schaum, Jack H.: Quick Reaction Capability, Nov., p 35

Schowalter, R. W.: Requirements for Successful Production of Gray Iron Castings, Sept., p 113

Schneider, C. A., W. H. Howells, Generating Quality And Productivity Improvement Using Motivational And Educational Techniques: Dec., p 94

Schumacher, J. S., R. W. Heine, E. H. King, How To Control Expansion Defects: Dec., p 50

Schumacher, J. S., J. B. Caine, and E. H. King: Rammed Sand Surfaces Study, Feb., p 122

Shainin, Dorian, Hans J. Heine and Lee P. Burgess: Throw a Curve at Your Costs, Aug., p 36

Sheptak, N.: Magnesium Die Casting Equipment and Metal Preparation, Nov., p 99

Shiriajev, W. V. and P. F. Vassilevsky: Steel Casting Production with Regulation of Cooling Process in the Mold, Sept., p 62

Siegfried, K. G.: Control Catalyst for Hot Box Success, Oct., p 56

Simonik, Stanislav: Theory of Solidification and Method for Directly Following Its Progress, Oct., p 112

Sloane, David J.: Relationship Between Machine Clamp and Casting Area in Aluminum Die Casting, June, p 114

Swing, E., G. J. Vingas and R. R. Schaaf: Surface Finish of Castings, Oct., p 74

T

Tall, S. A. and J. R. Beetham: Brass

Die Casting, Jan., p 91

Tanaka, Kanshichi: Large Ductile Iron Castings Production, May, p 111

Tannenberger, H. and B. Lux: Inoculation Effect on Graphite Formation in Pure Fe-C and Fe-C-Si, March, p 57

Teillet, Rafael M.: Permanent Mold Casting, May, p 103

Tottori, Tomojiro and Isao Aoki: Cast Iron Improvement By Oxygen Lancing, Jan., p 97

Tubich, George E.: New Foundry Methods And Materials Bring New Liabilities: Dec., p 82

V

Valentine, E. S.: Which Core Process?, Nov., p 45

Van den Berg, H. and H. G. Levelink: Green Sand Scabbing Tendency Testing By Shock Heating, March, p 80

Vassilevsky, P. F., and W. V. Schiriajev: Steel Casting Production with Regulation of Cooling Process in the Mold, Sept., p 62

G. J. Vingas, E. Swing and R. R. Schaaf: Surface Finish of Castings, Oct., p 74

W

Webb, A. W. O. and J. M. Langham: New High Strength Copper Manganese Aluminum Alloys, Nov., p 62

White, Charles E.: Profit Sharing Pays Off for Metalcasters, Feb., p 47

Whittman, James and Al Regelbrugge: Automatic Furnace Line Doubles Pearlitic Production, Sept., p 52

Y

Yerina, T. E., J. G. House, Computing Metal Loss In Melting Operations: Dec., p 76

EXACT TITLES OF FEATURE ARTICLES

A

Add Copper to Gray Iron . . . For Dynamic Precision, Dec., p 42

Advertisers' Showcase, May, p 200

Alloy Cast Irons in Great Britain: J. G. Pearce, Sept., p 106

Alloyed Gray Cast Iron for Machine Components: Albert De Sy, June, p 62

Al-7Si-0.3 Mg Alloy Simple and Complex Mold Casting Characteristics: G. Bracale, April, p 104

Aluminum Castings for Electronic Communications, Oct., p 59

Aluminum Die Casting and Factors Affecting Pressure Tightness: Donald L. LaVelle, Aug., p 51

Antimony Treated Cast Iron: J. Pelleg, Aug., p 76

Automation, Productivity Stressed by Die Casters, Nov., p 120

Automatic Furnace Line Doubles Pearlitic Production: Al Regelbrugge and James Whittman, Sept., p 52

B

Better Communications Mean Better Production Control: Forrest E. Noggle, Feb., p 62

Better Gating Eliminates Shrinkage: AFS Committee, May, p 49
 Belgian Foundry Research, Dec., p 47
 Blow Holes from Using Shallow Cope: AFS Committee 8-S, April, p 57
 Boats and Ships—Prime Metalcasting Markets, March, p 45
 Brass Die Casting: S. A. Tall and J. R. Beetham, Jan., p 91
 Business Should Be Good!: Trends Panel Report, May, p 41

C

Calculating Ingate Dimensions for Gray Iron Castings: Evert Bjorklund, April, p 69
 Carbon Equivalent in 60 Seconds, March, p 37
 Carrier Quality — Mark of Distinction for Metalcastings: Jack H. Schaum, Dec., p 37
 Cast Iron Dampening Capacity Structure and Property Relations: Elisabeth Plenard, May, p 144
 Cast Iron Enamelware, Nov., p 44
 Cast Iron Improvement By Oxygen Lancing: Tomojiro Tottori and Isao Aoki, Jan., p 97
 Cast Iron Melting In Electric Arc And Induction Furnaces: B. Marincek, Dec., p 99
 Cast Iron Structure and Properties: Wilhelm Patterson, March, p 104
 Cast Steel Analysis for Carbon and Alloys: K. R. Klumb, Feb., p 88
 Cast Steel Deoxidation To Vacuum Melted Levels Without Vacuum Processing: E. J. Dunn, Jr., Dec., p 57
 Casting a Thistle, Dec., p 40
 Charpy Test for Steel: W. K. Bock, Aug., p 64
 Chemical Milling Solves Contour Finishing Problems, Sept., p 48
 Cleaning Room Grinding: T. E. Martin, Dec., p 109
 Clogged Core Vents Blow Castings, July, p 33
 Computing Metal Loss In Melting Operations: J. G. House and T. E. Yerima, Dec., p 76
 Computer Designs Metalcasting Alloys, Oct., p 54
 Control Catalyst for Hot Box Success: K. G. Siegfried, Oct., p 56
 Controlling Operational Variables in Die Casting: H. K. Barton, May, p 152
 Copper as an Alloy in Iron Castings: W. E. Day, Nov., p 87
 Core Binder Properties: Joshua Pelleg, Jan., p 105
 Cost Reduction—Passport to Survival: C. J. McFayden, July, p 26
 Cu-Al-Mn and Cu-Mn-Al Casting Alloys with Ni and Fe Additions: Krzysztof Rutkowski, Feb., p 99
 Custom Job Shop Profits from New Furan Binder: Jack H. Schaum, Jan., p 38

D

Dampening Capacity of Cast Iron in

Structure and Property Relations: Elisabeth Plenard, May, p 144
 Design of a Gas Fired Cupola: Carl R. Loper, Jr., Sept., p 75
 Design vs. Ingenuity: T. E. Barlow, Oct., p 64
 Designer Is Key to More Heavy Equipment Business, Jan., p 31
 Detroit Opens Doors to World Foundrymen, May, p 97
 Develop Quality Tests for CO₂ Process: AFS Sand Division Core Test Committee (8-C), Jan., p 46
 Die Castings Automotive Trim: R. J. Carroll, Sept., p 101
 Don't Worry, We're Insured!: H. J. Weber, Jan., p 36
 Driverless Trucks Increase Production, April, p 60

E

European Common Market Nations Must Solve Many Problems, June, p 42
 Europe Moves Ahead—Sets Fast Pace in Technology, Modernization, Special International Report: Jack H. Schaum, May, p 68
 Eutectic Carbide—Eight-way Aid for Cupolas, Sept., p 37
 Evaluating Grinding Costs: R. D. Lane, Oct., p 62
 Excess Moisture Causes Rattail, June, p 54
 Exhibits — Sessions Win International Approval, June, p 137
 Experimental Cupola Plant Experiences: H. J. Leyshon and R. B. Coates, Jan., p 73
 Explore New Areas in Iron—Morrogh: Hoyt Lecture, May, p 93
 Explosive Embedment Anchor for Vessel Mooring Systems: William H. Baer, March, p 115

F

Factors Affecting Growth of Spheroidal Graphite: I. Minkoff, Jan., p 66
 Feeding and Structural Characteristics of Some Typical Casting Alloys: W. R. Roberts and V. Kondic, Oct., p 67
 Five Point Program for Effective Selling: Jack H. Schaum, April, p 58
 Five Points for Selling Castings: Anthony E. Cascino, June, p 144
 Flowability and Viscosity: P. Bastien, J. C. Armbruster and P. Azou, June, p 72
 Fluidity of Zinc-Aluminum Alloy: Virgil R. Friebe and William P. Roe, Sept., p 117
 Forest City Uses New Concept in Pyrometry: Jack H. Schaum, June, p 44
 Formation of Slags in Cast Iron and Effect on Castings: A. Dahlman and K. Loehberg, Oct., p 102
 Foundry Binders Based on Cellulose Derivatives: Rolf E. Moren, June, p 82
 From Atoms to Kilowatts, Aug., p 43

G

Gassed CO₂—Sodium Silicate Bonded

Sand Testing Under Compression, April, p 82
 Generating Quality And Productivity Improvement Using Motivational And Educational Techniques: C. A. Schneider, W. H. Howells, Dec., p 94
 Gray Cast Iron Control By Cooling Curve Techniques: H. A. Redshaw, C. A. Payne, and J. A. Hoskins, Feb., p 91
 Green and Dry Sand Mold Water Evaporation by Heat Radiation and Conductance: Franz Hofman, Jan., p 49
 Green Sand Scabbing Tendency Testing by Shock Heating: H. G. Levelink and H. Van den Berg, March, p 80

H

Hazards from Use of Resinous Binders: Report of AFS Sand Division Committee 8-N, April, p 129
 Heat Stress Measurement in Working Conditions: R. S. McClintock and W. F. Lienhard, Nov., p 49
 Heat Treatment of Cast Magnesium-Zinc-Zirconium Alloy: S. Morozumi, June, p 57
 High Speed Molding Takes High Speed Handling: International Harvester Louisville Plant, Jan., p 41
 High Strength Steel Castings Aluminum Nitride Embrittlement: R. F. Harris and G. D. Chandley, March, p 97
 How Allis-Chalmers Buys Castings, Aug., p 33
 How General Metals Fought Back, June, p 48
 How To Control Expansion Defects: R. W. Heine, E. H. King, J. S. Schumacher, Dec., p 50
 How to Design Defective Castings, Feb., p 56
 How to Get Military Contracts: W. R. Fingal, April, p 62
 How to Prevent Inverse Chill in Gray Iron, March, p 55

I

Importance of Charge Makeup, Melting Conditions and Fluxing in Copper Alloys: Pierre-Julien Le Thomas and Dominique Arnold, June, p 105
 Influence of Silicon on Gun Metal Alloys: L. A. DePue and W. A. Pennington, Oct., p 122
 Inoculation Effect on Graphite Formation in Pure Fe-C and Fe-C-Si: B. Lux and H. Tannenberger, March, p 57
 International Proposals for Cast Iron Graphite Classification: A. B. Everest, April, p 86
 International Trade Fair Draws World-Wide Audience, Nov., p 15
 It Takes Sales Engineers to Sell Engineered Castings: J. Schaum, Sept., p 42

K

Know Your Manufacturing Costs: MC Trends Panel, Oct., p 60

L

Large Ductile Iron Castings Produc-

tion: Kanschichi Tanaka, May, p 111
"Life" or "Death" for the Pattern Industry: David Baker, Aug., p 73
Lightweight Castings for Go-Karts, June, p 47

M

Magnesium Die Casting Equipment and Metal Preparation: N. Sheptak, Nov., p 99
Management Techniques and Production Control: Karl T. Rinderle, June, p 100
Manpower Development and Training: R. E. Betterley, Oct., p 12
Massive Castings Help Distill Oceans' Water, Sept., p 40
Meet Today's Competition With Solid Salesmanship: Peter R. Rentschler, March, p 40
Metalcasters Must Plan for Larger World Trade Role: Robert Minor, May, p 46
Micromeritics as Applied to Foundry Sands: Matt Granlund, Jan., p 85
MC Cover Reflects Spirit of Detroit, May, p 50
Modernization Cuts Cleaning Costs, March, p 52
Modernization Is Key to Textile Expansion, June, p 51
Moldability and Mold Control: H. W. Dietert, A. L. Graham, R. T. Dakiewicz and T. H. Hanna, Sept., p 81
Multiple Regression Analysis for Labor Cost Determination: Charles R. Ferguson, March, p 92

N

New Burner Design Speeds Aluminum Melting: Monarch Aluminum Mfg. Co.: John H. Keating, Jan., p 44
New Furnace Designed for Custom Melting, July, p 34
New Foundry Methods And Materials Bring New Liabilities: George E. Tubich, Dec., p 82
New High Strength Copper Manganese Aluminum Alloys: J. M. Langham and A. W. O. Webb, Nov., p 62
New Moldability Controller Delivers Uniform Sand Mixes, Aug., p 40
New Process for Shell Sand Regenerating and Cupola Preheating: I. Kutny and P. E. Biron, May, p 163
New Technology Expands Centrifugal Casting Horizon, April, p 50
Nitrogen in Cast Steel: Vsevolod Kuhn and Pierre Detrez, July, p 57
Non-Ferrous Sands—Naturally Bonded Or Synthetic?: R. F. Dalton, Dec., p 63

O

Odors—Are They an Air Pollution

Nuisance?: Herbert J. Weber, Nov., p 9
Official Guide to Exhibitors 1962 AFS Foundry Exposition, May, p 85
Olivine Sand Combined Moisture Study: P. W. Ford, Aug., p 58
Olivine Sand Use in Swedish Steel Foundries: K. Beckius, P. Flodberg and S. Forslund, May, p 126

P

Parameters Effect on Physical Properties of Plaster Molds: E. S. Johnson, Feb., p 117
Permanent Mold Casting: Rafael M. Teillet, May, p 103
Permanent Molding Gains in Mass Markets, July, p 29
Polyurethane—A Maintenance Breakthrough: Jack H. Schaum, July, p 23
Preliminary Draft, International Recommendations, Gray Iron Charpy Impact Test: H. T. Angus, Sept., p 57
Problems in Sampling and Sieve Testing Sand: Paul Close, Nov., p 103
Productivity Is Key to Profitability, Sept., p 45
Profit Sharing Pays Off for Metalcasters: Charles E. White, Feb., p 47
Progress and Problems in the Understanding of Cast Irons: Henton Morrough, July, p 37
Proper Gating Is Important: T. E. Barlow, Nov., p 43
Proper Pattern And Casting Design To Control Defects: J. W. Costello, Dec., p 87
Pyle National Needs Castings in a Hurry: Jack H. Schaum, Oct., p 51

Q

Quality Castings Demand Quality Refractories: F. H. Hohn, March, p 48
Quick Reaction Capability: Jack H. Schaum, Nov., p 35

R

Rammed Sand Surfaces Study: J. B. Caine, E. H. King and J. S. Schumacher, Feb., p 122
Relationship Between Machine Clamp and Casting Area in Aluminum Die Casting: David J. Sloane, June, p 114
Requirements for Successful Production of Automotive Gray Iron Castings: R. W. Schowalter, Sept., p 113
Right from the Horse's Mouth: R. E. Betterley, Nov., p 11
Run-out or Run-in: T. E. Barlow, Sept., p 54

S

Shell Molding Applied to a Hundred

Automobile Parts: Tokinosuke Murao, Sept., p 92
Slurry System Proves Cost Cutter, Aug., p 44
Statistical Study of Foundry Practice: Roger W. Hood, Aug., p 69
Stress Corrosion Susceptibility Of Modified High Strength Yellow Brass Casting Alloys: D. K. Fox, Dec., p 51
Steel Casting Production with Regulation of Cooling Process in the Mold: P. F. Vassilevskiy and W. V. Shiriajev, Sept., p 62
Study of Mechanism of Melting Cast Iron with Hot Gases: Henry De Rycker, July, p 47
Surface Finish of Castings: E. Swing, G. J. Vingas and R. R. Schaaf, Oct., p 74

T

The Silk Worm and the Wise Owl: H. J. Weber, Oct., p 11
Theory of Solidification and Method for Directly Following Its Progress: Stanislav Simonik, Oct., p 112
They Said It Couldn't Be Done: Lester B. Knight, Nov., p 38
Thorium and Thorium-Uranium Alloy Vacuum Induction Melting and Casting: N. H. Katz, E. G. Kendall and M. H. Binstock, Nov., p 80
Throw a Curve at Your Costs, Aug., p 36
Training in Danish Foundry Industry: Ove Hoff, April, p 99
\$2,500,000 "Package" of Validated New Technology, May, p 52

U

Urethane Elastomers in the Foundry: Richard J. Gallagher, Nov., p 55

V

Vanadium Effect on White Cast Iron Graphitization Kinetics: G. Sandoz, April, p 94

W

Waste Disposal Systems Save Money and Manpower: Crouse-Hinds Co., Feb., p 59
Waterless Sand Improves Finish: George Mott, April, p 54
What About Continuous Cupola Charging?, Nov., p 48
What Does the Automotive Turbine Mean to Metalcasters?: Robert Minor, April, p 47
What They Said in Detroit! June, p 39
Which Core Process?: E. S. Valentine, Nov., p 45
White Cast Iron Inoculation Effect on Graphitization: G. Sandoz, Jan., p 61